



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

REC'D 09 DEC 2003

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Applicant's or agent's file reference MG/P33020	FOR FURTHER ACTIO	ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
International application No.	International filing date (day)	month/year)	Priority date (day/month/year)			
PCT/EP 03/03195	25.03.2003		27.03.2002			
International Patent Classification (IPC) or both national classification and IPC						
	Otti Hatioriai Classification and i					
C07D471/04						
	•					
Applicant						
GLAXO GROUP LIMITED et al.			•			
This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.						
2. This REPORT consists of a total of 4 sheets, including this cover sheet.						
This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made batore this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
These annexes consist of a total	of sheets.	•				
3. This report contains indications r	elating to the following items	s:				
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Basis of the opinion						
II □ Priority		to to the salar	and industrial applicability			
	opinion with regard to nove	eity, inventive step	and muusmai appiicabiiity			
jV □ Lack of unity of inven	tion		the star as industrial applicability			
V 🛛 Reasoned statement citations and explana	V Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
V! Certain documents of	ited					
	international application					
	on the international applica	tion	•			
Date of submission of the demand	D	ate of completion of t	this report			
Date of submission of the definance						
16.10.2003	O	5.12.2003				
		uthorized Officer				
Name and mailing address of the Internation preliminary examining authority:	onai .	uulolized Ollicei	See LOS MIDRAL			
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/03195

1	Bas	ie d	of t	ha	ren	ort
I.	Das	iis i	9	uie	IED	UIL

1.	With regard to the elements of the international application (Replacement sheets which have been furnished the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally fix and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):						
	Des	scription, Pages	,				
	1-26		as originally filed				
	Cla	ims, Numbers					
	1-5		as originally filed				
2.	Witl lang	Ith regard to the language, all the elements marked above were available or furnished to this Authority in the nguage in which the international application was filed, unless otherwise indicated under this item.					
	These elements were available or furnished to this Authority in the following language: , which is:						
		the language of a tra	inslation furnished for the purposes of the international search (under Rule 23.1(b)).				
		the language of publ	ication of the international application funder Hule 43.3(b)).				
		the language of a tra Rule 55.2 and/or 55.	inslation furnished for the purposas of international poliminary examination (under 3).				
3.	Witl inte	n regard to any nucle rnational preliminary	otide and/or amino acid sequence received to me international application, the examination was carried out on the basis of me sequence listing:				
		contained in the inte	rnational application in written form.				
		filed together with th	e international application in computer readable form.				
		furnished subsequer	ntly to this Authority in written form.				
		furnished subsequer	ntly to this Authority in computer readable form.				
		The statement that the international a	ne subsequently furnished written sequence listing does not go beyond the disclosure pplication as filed has been furnished.				
		The statement that the listing has been furn	ne information recorded in computer readable form is identical to the written sequence shed.				
4.	The	amendments have re	esulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				
5.		This report has been been considered to	established as if (some of) the amendments had not been made, since they have to beyond the disclosure as filed (Rule 70.2(c)).				

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this

6. Additional observations, if necessary:

report.)

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International application No.

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V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No: Claims

Claims

Inventive step (IS)

Yes: Claims

1-5

1-5

Industrial applicability (IA)

Yes: Claims

No:

1-5

No: Claims

2. Citations and explanations

see separate sheet

point V:

The present application relates to quinoline and aza-indole derivatives which are active as 5-HT6 ligands and may be used in the treatment of CNS disorders.

The characteristic structural features of the compounds claimed are as follows:

- an N-hetero bicyclic system; see the radical Q which is
- substituted by a piperazine moiety and by
- an aryl radical (symbol A) whereby
- the aryl radical is linked via a sulphone bridging member.

Compounds showing this combination of structural features are neither disclosed nor made obvious by the available prior art.

The two documents cited in the Intern. Search report refer to sulfamides and are therefore not relevant; WO 99/65906 - see the radical R⁵, WO 01/12629 - see the radical R¹.

The recomments of Art.33(2) (3) are deemed to be met.